

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1 and 2 (canceled)

Claim 3 (previously presented): The method as defined in Claim 9 or 10 wherein the host cell is a prokaryotic cell or an eukaryotic cell.

Claim 4 (previously presented): The method as defined in Claim 3 wherein the host cell is a microorganism.

Claim 5 (previously presented): The method as defined in Claim 4 wherein the microorganism is *Escherichia coli*.

Claim 6 (previously presented): The method as defined in any one of Claims 9 and 10 wherein the molecular weight of the polypeptide comprising a serine residue is about 1000 to 20000.

Claim 7 (canceled).

Claim 8 (currently amended): The method as defined in any one of Claims 9 and 10 wherein the atrial natriuretic peptide is human atrial natriuretic peptide.

Claim 9 (previously presented): A method for reducing formation of a byproduct polypeptide comprising an O-acetylserine residue in place of a serine residue, comprising:

- (i) culturing, in a medium, transformed host cells that produce a recombinant atrial natriuretic peptide comprising a serine residue and a byproduct polypeptide comprising an O-acetylserine residue in place of a serine residue;
- (ii) adding to said medium at least one of histidine, methionine or glycine in an amount effective to reduce said byproduct formation; and
- (iii) reducing the formation of said byproduct polypeptide.

Claim 10 (previously presented): A method for producing a polypeptide comprising a serine residue comprising:

- (i) culturing, in a medium, transformed host cells that produce a recombinant atrial natriuretic peptide comprising a serine residue and a byproduct polypeptide comprising an O-acetylserine residue in place of a serine residue;
- (ii) adding at least one of histidine, methionine or glycine to the medium in an amount effective to reduce said byproduct formation; and
- (iii) reducing the formation of said byproduct polypeptide.

Claim 11 (currently amended): A culture medium comprising:

- (i) transformed host cells that produce a recombinant polypeptide atrial natriuretic peptide comprising a serine residue and a byproduct polypeptide comprising an O-acetylserine residue in place of a serine residue;
- (ii) at least one of histidine, methionine or glycine added to the medium in an amount

effective to reduce formation of a byproduct polypeptide comprising O-acetylserine residue in place of a serine residue; and

(iii) a reduced formation of said byproduct polypeptide as compared with a control medium with no histidine, methionine or glycine added.

Claim 12 (previously presented): The culture medium of claim 11 wherein the formation of said byproduct polypeptide is reduced in an amount greater than or equal to 50% as compared with said control medium.